

1 1. In a computerized system that includes one or more mobile devices and an
2 electronic message server supporting wireless communication, wherein at least some of the
3 mobile devices have an input system that is optimized for numeric input rather than text
4 input, and wherein at least some of the mobile devices are capable of sending and receiving
5 electronic messages, a method of composing an electronic message using a mobile device,
6 the method comprising the acts of:

7 receiving a command to begin composing an electronic message;

8 receiving a command to add audio content to the electronic message;

9 diverting to a temporary storage, an audio content stream received at an audio
10 input;

11 storing the audio content stream in a format that is compatible with adding
12 audio content to the electronic message; and

13 attaching the formatted audio content to the electronic message.
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15 2. A method as recited in claim 1, wherein the mobile device comprises a phone
16 and the temporary storage comprises a temporary data file, and wherein the audio content
17 stream received at the audio input is generated by a user speaking into the phone's
18 mouthpiece.
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20 3. A method as recited in claim 1, wherein the electronic message comprises an
21 electronic mail message, and wherein the formatted audio content is attached as an
22 electronic mail attachment.
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1 4. A method as recited in claim 3, wherein the electronic mail message is
2 composed in either replying to or forwarding a specific electronic mail message, the method
3 further comprising the act of receiving the specific electronic mail message.

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5 5. A method as recited in claim 1, wherein the total amount of audio content
6 that may be stored in temporary storage is limited to a predetermined maximum, the method
7 further comprising the act of displaying a progress indicator to show a current amount of
8 temporary storage used in storing the data stream compared to the predetermined maximum.

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10 6. A method as recited in claim 1, wherein the format used to store the audio
11 content stream allows for data compression, the method further comprising the act of
12 compressing the audio content stream in accordance with the storage format.

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14 7. A method as recited in claim 6, wherein the storage format is a WAV file
15 format.

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17 8. A method as recited in claim 1, wherein receiving the command to add audio
18 content to the electronic message is based on either the selection of a user interface menu
19 item to add audio content to the electronic message or the press of a record button.

1 9. A method as recited in claim 1, further comprising the acts of:

2 displaying an indicator that audio content has been attached to the electronic
3 message; and

4 displaying the size of the attached audio content.

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6 10. In a computerized system that includes one or more mobile devices and an
7 electronic message server supporting wireless communication, wherein at least some of the
8 mobile devices have an input system that is optimized for numeric input rather than text
9 input, and wherein at least some of the mobile devices are capable of sending and receiving
10 electronic messages, a method of composing an electronic mail message using a wireless
11 telephone, the method comprising the acts of:

12 receiving a command to begin composing an electronic mail message;

13 receiving a command to add audio content to the electronic mail message;

14 diverting to a temporary storage, an audio content stream received at a
15 wireless telephone voice input;

16 storing the audio content stream in a format that is compatible with adding
17 audio content to the electronic mail message; and

18 attaching the formatted audio content to the electronic mail message.

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20 11. A method as recited in claim 10, wherein the electronic mail message is
21 composed in either replying to or forwarding a specific electronic mail message, the method
22 further comprising the act of receiving the specific electronic mail message.

1 12. A method as recited in claim 10, wherein attaching the formatted audio
2 content to the electronic mail message complies with a Multipurpose Internet Mail
3 Extensions specification.

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5 13. A method as recited in claim 10, wherein the format used to store the data
6 stream allows for data compression, the method further comprising the act of compressing
7 the data stream in accordance with the storage format.

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9 14. A method as recited in claim 10, wherein the total amount of audio content
10 that may be stored in temporary storage is limited to a predetermined maximum, the method
11 further comprising the act of displaying a progress indicator to show a current amount of
12 temporary storage used in storing the data stream compared to the predetermined maximum.

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14 15. A method as recited in claim 10, wherein receiving the command to add
15 audio content to the electronic mail message is based on either the selection of a user
16 interface menu item to add audio content to the electronic mail message or the press of a
17 record button, the method further comprising the acts of:

18 displaying an indicator that audio content has been attached to the electronic
19 mail message; and

20 displaying the size of the attached audio content.
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1 16. In a computerized system that includes one or more mobile devices and an
2 electronic message server supporting wireless communication, wherein at least some of the
3 mobile devices have an input system that is optimized for numeric input rather than text
4 input, and wherein at least some of the mobile devices are capable of sending and receiving
5 electronic messages, a method of composing an electronic message using a mobile device,
6 the method comprising steps for:

7 initiating the creation of an electronic message, the electronic message to
8 include audio content;

9 capturing audio content from an audio content stream being received at an
10 audio input, wherein the audio content stream is generated by a user speaking into
11 the audio input;

12 adding the audio content to the electronic message in a format that is
13 compatible with the electronic message.
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15 17. A method as recited in claim 16, wherein the mobile device comprises a
16 telephone, and wherein the audio stream is generated by a user speaking into the telephone's
17 mouthpiece.
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19 18. A method as recited in claim 16, wherein the electronic message comprises
20 an electronic mail message, and wherein the step for adding the audio content to the
21 electronic message comprises the acts of:

22 formatting the captured audio content stream to be compatible with the
23 electronic mail message; and

24 attaching the formatted audio content to the electronic mail message.

1 19. A method as recited in claim 18, wherein the electronic mail message is
2 composed in either replying to or forwarding a specific electronic mail message, and
3 wherein the step for initiating the creation of the electronic mail message includes the act of
4 receiving the specific electronic mail message.

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6 20. A method as recited in claim 16, wherein the step for capturing audio content
7 from the audio content stream comprises the acts of:

8 diverting the audio content stream to a temporary storage; and

9 storing the audio content stream in the temporary storage.

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11 21. A method as recited in claim 20, wherein the temporary storage comprises a
12 temporary data file that is limited to a predetermined maximum of the total amount of audio
13 content that may be stored, and wherein the step for capturing audio content from the audio
14 content stream further comprises the act of displaying a progress indicator to show a current
15 amount of temporary storage used in storing the data stream compared to the predetermined
16 maximum.

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18 22. A method as recited in claim 16, wherein the format used to store the data
19 stream allows for data compression, and wherein the step for adding the audio content to the
20 electronic message comprises the act of compressing the audio content stream in accordance
21 with the storage format.

1 23. A method as recited in claim 16, wherein the step for initiating the creation of
2 an electronic message comprises the acts of:

3 receiving a command to begin composing an electronic message; and

4 receiving a command to add audio content to the electronic message, wherein
5 the act of receiving the command to add audio content to the electronic message is
6 based on either the selection of a user interface menu item to add audio content to the
7 electronic message or the press of a record button.

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9 24. A method as recited in claim 16, wherein the step for adding the audio
10 content to the electronic message comprises the acts of:

11 displaying an indicator that audio content has been added to the electronic
12 message; and

13 displaying the size of the added audio content.
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1 25. In a computerized system that includes one or more mobile devices and an
2 electronic message server supporting wireless communication, wherein at least some of the
3 mobile devices have an input system that is optimized for numeric input rather than text
4 input, and wherein at least some of the mobile devices are capable of sending and receiving
5 electronic messages, a computer program product for implementing a method of composing
6 an electronic message using a mobile device, comprising:

7 a computer readable medium for carrying machine-executable instructions
8 for implementing the method; and

9 wherein said method is comprised of machine-executable instructions for a
10 mobile device performing the acts of:

11 receiving a command to begin composing an electronic message;

12 receiving a command to add audio content to the electronic message;

13 diverting to a temporary storage, an audio content stream received at
14 an audio input;

15 storing the audio content stream in a format that is compatible with
16 adding audio content to the electronic message; and

17 attaching the formatted audio content to the electronic message.

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19 26. A computer program product as recited in claim 25, wherein the mobile
20 device comprises a phone and the temporary storage comprises a temporary data file, and
21 wherein the audio content stream received at the audio input is generated by a user speaking
22 into the phone's mouthpiece.
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1 27. A computer program product as recited in claim 25, wherein the electronic
2 message comprises an electronic mail message, and wherein the formatted audio content is
3 attached as an electronic mail attachment.
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5 28. A computer program product as recited in claim 27, wherein the electronic
6 mail message is composed in either replying to or forwarding a specific electronic mail
7 message, the method further comprising the act of receiving the specific electronic mail
8 message.
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10 29. A computer program product as recited in claim 25, wherein the total amount
11 of audio content that may be stored in temporary storage is limited to a predetermined
12 maximum, the method further comprising the act of displaying a progress indicator to show
13 a current amount of temporary storage used in storing the data stream compared to the
14 predetermined maximum.
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16 30. A computer program product as recited in claim 25, wherein the format used
17 to store the audio content stream allows for data compression, the method further
18 comprising the act of compressing the audio content stream in accordance with the storage
19 format.
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21 31. A computer program product as recited in claim 30, wherein the storage
22 format is a WAV file format.
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1 32. A computer program product as recited in claim 25, wherein receiving the
2 command to add audio content to the electronic message is based on either the selection of a
3 user interface menu item to add audio content to the electronic message or the press of a
4 record button.

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6 33. A computer program product as recited in claim 25, the method further
7 comprising the acts of:

8 displaying an indicator that audio content has been attached to the electronic
9 message; and

10 displaying the size of the attached audio content.
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